

# Chris Cao

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## Education

### Queen's University

Master of Management Analytics (GPA 4.1/4.3 - top 5%)

May 2020

Toronto, ON

### University of Toronto

BSc in Applied Mathematics - Statistics Stream (Co-op Program)

May 2016

Toronto, ON

## Experience

### CPP Investments

Senior Analyst/Developer (Python, Spark, AWS, SQL, Tableau, HTML/CSS, Jenkins)

Nov 2019 - Present

Toronto, ON

- > Built automated ETL Pipelines/Job Scheduling with Python/SQL Server/AWS/Jenkins
- > Designed and maintained over 7 fully automated enterprise-level BI Dashboards in Tableau
- > Developed internal Python libraries/algorithms which include Data Loader/Mapper, Email Manager etc.

### Allstate Canada

BI/Machine Learning Consultant (Python, SQL, R, SAS, Tableau, SSIS)

Mar 2019 - Nov 2019

Toronto, ON

- > Utilized Python and its ML packages (Scikit-Learn, TensorFlow etc.) to implement supervised pricing models
- > Led BI Reporting Automation/Migration Project by reducing daily processing time by 80%

### Portfolio Aid

Business System Analyst (Python, AWS, SQL, Selenium, Linux/Unix)

Mar 2017 - Mar 2019

Toronto, ON

- > Designed automated testing framework and developed test scripts to execute regression/functional testing
- > Developed and optimized supervised risk rating classification models using SVM/Random Forest/Logistic Regression algorithms along with PCA/Boosting/Bagging techniques

### Bell Canada

Marketing Data Consultant (Python, SQL, Tableau)

Dec 2016 - Mar 2017

Toronto, ON

- > Gathered modelling data through surveys, web scraping, and Facebook Analytics API
- > Performed in-depth data analysis to identify key metrics and derive actionable business insights

### Sunlife Financial

BI Analyst Intern

Sep 2015 - Dec 2015

Toronto, ON

### Ontario Ministry of Education

IT Analyst Intern

May 2015 - Aug 2015

Toronto, ON

### CIBC

QA Analyst Intern

Jan 2015 - Apr 2015

Toronto, ON

## Projects

### House Price Prediction

Queen's University

- > Conducted extensive Exploratory Data Analysis by performing missing data/outliers imputation
- > Established best-fit LASSO regression models by tuning parameters and achieved top 3 among 110 students

## Skills

**Programming** Python, Spark/Hadoop, SQL, Cassandra, HTML/CSS, Java, Linux/Unix, Git

**Big Data/Machine Learning** AWS (EC2, S3, Redshift, EMR), TensorFlow, Supervised/Unsupervised Learning Algorithms, Natural Language Processing, Recommender System, NNS